


1967

## College of Technology, Bolton Street Prospectus 1967-68

City of Dublin Vocational Education Committee

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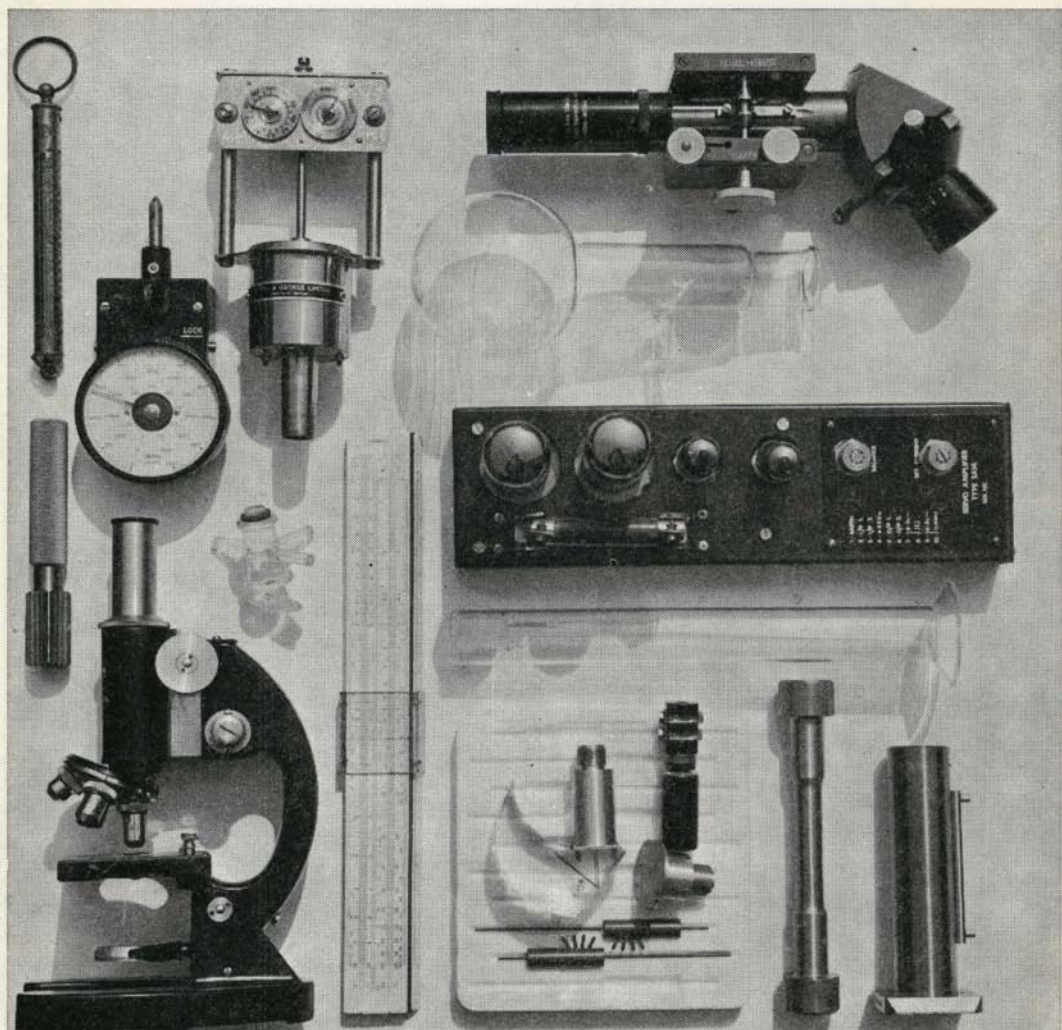
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# Prospectus

1967-68

## College of Technology

Bolton Street



## College of Technology

**Bolton Street  
Dublin**

City of Dublin  
Vocational Education Committee

**School of Architecture**  
**School of Engineering**  
**School of Printing**  
**School of Trades**



**Mr Patrick Donegan** 121 Shanard Road  
Dublin 9 (Chairman)

**Councillor James O'Keeffe PC** 138 Sundrive  
Road Dublin 12 (Vice-Chairman)

**Alderman Lauri Corcoran** 1 Errigal Road  
Dublin 12

**Councillor Gilbert Hughes PC** 24 Cill Eanna  
Raheny Dublin 5

**Councillor John McCann** 115 Fortfield Road  
Dublin 6

**Alderman Michael Mullen TD** 202 Navan  
Road Dublin 7

**Councillor Michael Hopper** 63 Bothar  
Sheanaird Dublin 9

**Councillor Mrs Catherine Byrne** 5 Seafort  
Terrace Seafort Avenue Dublin 4

**Mrs Celia Lynch TD** 156 Botanic Road  
Dublin 9

**Mr Joseph Whitley** 16 Eglinton Terrace  
Donnybrook Dublin 4

**Rt Rev Monsignor John O'Regan STL**  
Parochial House, Clondalkin Co Dublin

**Mr J B Colgan** 50 Cedarmount Road  
Mount Merrion Co Dublin

**Mr Sean O'Hanlon** 1 Turlough Gardens  
Dublin 3

**Capt Jas A Kelly** Grange Lodge Raheny  
Dublin 5

**Mr Martin M Gleeson MA BComm** Chief  
Executive Officer

**Offices** Town Hall Merrion Road Ballsbridge  
Dublin 4

**Mr Patrick Donegan** Chairman City of Dublin  
Vocational Education Committee

**Councillor Gilbert Hughes PC** 24 Cill Eanna  
Raheny Dublin 5

**Mr Martin M Gleeson MA BComm**  
Chief Executive Officer City of Dublin  
Vocational Education Committee

**Rt Rev Monsignor J O'Regan STL PP**  
Parochial House Clondalkin Co Dublin

**Mr J B Colgan** 50 Cedarmount Road Mount  
Merrion Co Dublin

**Mr Sean O'Hanlon PC** 1 Turlough Gardens  
Philipsburgh Avenue Fairview Dublin 3

**Mr Michael Scott FRIAI** 19 Merrion Square  
Dublin 2

**Mr A Harkin** Chief Engineer Electricity  
Supply Board 27 Lower Fitzwilliam Street  
Dublin 2

**Representative of the Dublin Council of  
Trade Unions**

**Mr Donal F O'Dwyer** Principal College of  
Technology Bolton Street

## ADVISORY COMMITTEES

### Architecture

F B Meehan MRIAI BArch  
H S Robson MSc BArch MRIAI ARIBA  
D O'Toole FRIAI AMTPI

### Architectural Technicians

Denis J McGloughlin MIAAT  
John M McCarthy MSAAT MIAAT

### Town Planning

L Carvill DipArch (Liv) DiplCivic Des (Liv)  
ARIBA AMTPI  
J Conway BE AMTPI  
G Meagher BComm DPA  
M O'Brien BE AMTPI

### Building Technology

J Jennings FIOB  
D McIlvenna FIOB  
L Thompson BAI MICEI FIOB  
J G McCormack FIOB  
W H Goodey FIOB

### Mechanical Engineering

J Cassidy General Secretary National  
Engineering Union  
A P Tuke General Secretary Irish Engineering  
Industrial & Electrical Trade Union  
H T Hanlon Irish Engineering Industrial  
& Electrical Trade Union  
P J Buckley Irish Engineering Industrial  
& Electrical Trade Union  
F Gray Personnel Officer Coras Iompair  
Eireann  
H Lennox General Manager Liffey Dockyard  
S O'Flaherty Managing Director Messrs Motor  
Distributors Ltd.  
John Watt 57 Ranelagh Road Dublin 6  
T W Bamford Managing Director  
Universal Fabricators

J C Tonge Tonge & Taggart  
H Farrelly District Secretary United Society  
of Boilermakers and Iron and Steel  
Shipbuilders

### Heating and Ventilating Engineering

Eoin O Cionna BE MICEI AMIEE MIHVE  
MASHRAE MConSEI Hon Secretary The  
Association of Consulting Engineers of  
Ireland  
Noel Traynor AMIHVE Hon Secretary The  
Association of Master Plumbers Heating  
& Ventilating Engineers of Ireland  
Seamus Homan AMIHVE Design Engineer  
Varming & Mulcahy Consulting Engineers  
Eamonn O'Brien c/o Robt Jacob  
Consulting Engineers  
Reginald Keating GIHVE Hon Secretary  
The Association of Design Engineers  
& Draughtsmen

### Surveying

Royal Institution of Chartered Surveyors  
H C Tierney FRICS  
R H White BE BSc FRICS  
G M Costello FRICS  
A Williams FRICS  
N J Dooley FRICS  
A J Fleming ARICS  
N McDonagh FRICS  
D T McCarthy FRICS  
S McKenna ARICS  
Ian Roberts FRICS  
Institute of Quantity Surveyors  
B V Boyle FIQS  
G N Semple AIQS  
N Power-Smith AIQS

## Advisory Committees

Building Surveyors' Institute  
John J Barrett FBSI  
Incorporated Association of Architects  
and Surveyors  
Stanley J Coggin FIAS FI Arb

### Bricklaying

Denis Murray  
Master Builders' Association  
Brick & Stonelayers' Society  
Francis O'Connor  
James Farrell  
Patrick Holohan

### Carpentry + Joinery and Woodcutting Machinists' Work

Amalgamated Society of Woodworkers  
James Carroll  
Irish National Union of Woodworkers  
William Joyce  
C Clarke  
Gerard Wall Secretary Irish Society of  
Woodcutting Machinists  
J G McCormack  
Master Builders' Association  
H R Armstrong Messrs Brooks-Thomas & Co

### Furniture Trades

D McCarthy O'Dea & Co Ltd  
P F McGrath  
Irish National Union of Woodworkers  
J Carroll  
Amalgamated Society of Woodworkers  
G L Wall  
Irish Society of Woodcutting Machinists  
D Bowden J V Bowden & Co Ltd  
I R Hunter I R Hunter & Co Ltd

W Robinson  
National Union of Furniture Trade Operatives  
52 Peter's Hill Belfast 13 Northern Ireland  
P Marrey  
Furniture Manufacturer  
20a St Joseph's Parade Dublin 7

### Plastering

Operative Plasterers' Trade Society  
Gerald Doyle  
Leo Crawford  
Donal O'Reilly  
T Byrne M Creedon Ltd 3 Ardee Road  
Dublin 6  
J H Parsons Master Builders' Association

### Plumbing

Association of Master Plumbers Heating &  
Ventilating Engineers of Ireland  
J N Traynor  
Thomas Finlay  
Plumbing Trades' Union  
A Mullins  
J Neary  
J Donnelly  
T Murphy  
P Ferris  
P Byrne  
M Slevin

### Vehicle Building

National Union of Vehicle Builders  
M Jackson  
H Samway  
G J Roberts Coach and Motor Body Builder  
3A Lower Grangegorman Dublin 7  
M F Gavan c/o R Callow & Sons Ltd  
Woodland Road Dublin 2



**Aeronautical Engineering**

P Delaney Aer Lingus Teo Dublin Airport  
Lieut-Col J Teague Army Air Corps Baldonnel  
Capt P G McCabe Aeronautical Officer  
Aviation Division Department of Transport  
& Power

**Motor Engineering**

A McAuley BSc Assistant Mechanical  
Engineer (Road) CIE  
Society of Irish Motor Traders  
Charles Warren  
Automobile General Engineering and  
Mechanical Operatives' Union  
B Leonard General Secretary  
P Thewlis  
Irish Engineering Industrial and Electrical  
Trade Union  
A P Tuke  
J Drennan  
M Geoghegan  
Robert J Porter Messrs R W Archer & Co  
Ltd  
Patrick Flanagan Messrs McCairns Motors Ltd  
John Keeney LSE Motors Ltd  
Maurice Foley Institute of the Motor Industry

**Structural Steelwork**

L O'Neill National Engineering Union  
33 Gardiner's Place  
P Dunne  
Irish Transport & General Workers' Union  
J D Pearson Smith & Pearson Ltd  
A Davidson Kennan & Sons  
D Purdy Smith & Pearson Ltd  
Irish Engineering Industrial &  
Electrical Trade Union  
L A Coffey

**Printing + Book Production**

Irish Printing Federation  
B McSweeney  
A Field  
C J Warren  
R R Yates-Hale  
L C Jacob  
A J Wilson  
Irish Graphical Society  
N C McGrath  
B O Cearbhaill BA LLB  
E Dignam Stereotypers' Society  
Irish Bookbinders' & Allied Trades' Union  
J Cullen  
Lithographic Artists' and Process-Workers'  
Society  
A Kavanagh  
J Jeffers Photo Engraving Group  
B Hempton  
Amalgamated Society of Lithographic Printers

**Principal**

Donal F O'Dwyer BArch FRIAI

**Deputy-Principal**

John D Barry MSc BE CEng MIMechE MICEI

**School of Architecture Surveying and  
Building**

Head of School: Kevin Fox BArch MRIAI  
Assistant Head: Albert J Brady BArch  
MRIAI

**School of Engineering**

Head of School: The Deputy-Principal  
Assistant Head: Denis Fitzgibbon BE CEng  
AMIMechE

**School of Printing and Book Production**

Head of School: William J Fitzpatrick  
AMIOP  
Assistant Head: Christopher J McCullagh  
Final C & G

**School of Trades**

Head of School: John B Hickey BA

**Senior Chaplain:**

Rev John McAvoy SJ

**Secretary/Registrar**

Liam O Dúlacháin FCPA FICA

**Offices:** College of Technology Bolton Street  
Dublin 1 Telephone 49913 (8 lines)

School of Trades Yarnhall Street Dublin 1  
Telephone: 49873/4

Annex 62 Eccles Street Dublin 7  
Telephone: 41268



## ACADEMIC STAFF

### School of Architecture, Surveying & Building

Head of School : Kevin Fox BArch MRIAI

Assistant Head : Albert J Brady BArch MRIAI

#### Department of Architecture & Town

##### Planning

Head of Department: Albert J Brady BArch MRIAI

Assistant Head: John J O'Keeffe BArch MRIAI

##### Wholetime Staff

Liam Carlin MRIAI ARIBA

Michael Clifton BE AMICEI

William Gilligan BArch MRIAI

Maurice Hogan MRIAI

Anthony Johnson BArch MRIAI ARIBA

Patrick Shaffrey BArch DipCD AMTPI

##### Part-time Staff

Louis Carville DipArch DipCivicDes ARIBA AMTPI

John S Conway BE DipTP (Housing) AMTPI AMICEI

Una Cradock ANCA

Patrick Delany BArch MRIAI AMTPI

John J Gallagher BSc

Leonard Gallagher BAgrSc

James Greenfield BA MCD AMTPI

James J Harrington BE CEng AMIStructE AMICEI

Robert Noel Hayes BE MSc

Brian Hogan BArch MRIAI ARIBA

Gabriel McCarron BArch MRIAI AMTPI

Piarras Mac Cionnaith BArch MRIAI

Raymond McDonnell BArch MRIAI

Leo Mansfield DipArch MRIAI

Sean Murphy DipArch MRIAI

Ciaran P O'Carroll BArch MRIAI

Naish O'Dowd DipArch MRIAI

Dr Anthony Orme BA PhD FGS

Michael O'Sullivan DipArch MRIAI

M Purcell

Michael Phillips BArch MRIAI

Sean Rothery BArch MRIAI ARIBA

Richard Stringer BArch ARIBA AMTPI

##### Extern Examiners

Dennis Berry DipArch ARIBA

Christopher Dardis MArch AMTPI ARIBA

#### Department of Surveying & Building

##### Technology

Head of Department: Christopher W Parton

FRICS FIOB FRSH FIARb

Assistant Head: Vacant

##### Whole-time Staff

Eanna de Burca FRICS

Thomas Carroll MHIA DipPPI (Seconded from the Department of Health)

Seamus Cunningham MI(Hons)

Christopher Curran AIOB

Daniel Kelly BE

Sean Loftus Barrister-at-Law

Patrick McGuinness FIOB

Kevin Murnane ARIBA

Patrick Nugent FRICS

Cornelius Power MEconSc BComm ACIS ACommA

##### Part-time Staff

Maurice Brogan ARIBA MRIAI

Stanley Coggin FIAS FIARb

Patrick J Conroy MHIA

Dr Ronald Cox MA MAI PhD AMICE

AMICEI

## Academic Staff

James Culliton FBSI

Richard Deegan ARPS

Dermot Doorley AMIStructE

Anthony Fitzpatrick BComm

Albert Fleming FRICS

John Furey DipHS DipPPI DipPA MHIA AMPHIA

Dr Derek Goodhue PhD BSc

Cornelius Healy MHIA

Seamus Homan AMIHVE

William K Hunt ARIBA MRIAI

Liam Jones MBA BComm

Richard Lahert MHIA DPPHI

Michael Maguire MHIA

Barry McHugh ARICS

Terry McLoughlin ARICS

Michael McNulty MHIA DPPHI

Oliver McNulty GradIStructEng

Phillip Molloy MRIAI

Richard Morrison BSc FRICS

Laurence Mullen BA MHIA

Gerard Murphy MRSH MRGPHH

Mary J Neylon Barrister-at-Law

DipLibTRN

Michael A Nugent MHIA DPPHI

Mannix O'Boyle MRCVS

Eamonn J O'Brien AMIHVE

Thomas J O'Brien MHIA DPPHI

Patrick Callinan FRICS

Mary O'Doherty BA (Mod) BSc

Kevin O'Halloran MBA BComm

Derek Ryan ARIBA MRIAI

G Neville Semple AIQS

Elizabeth O'Shaughnessy BArch

Dr John Walker MB BCh BOA

Capt M Walsh OS BAI

Thomas D Watson MHIA

Arthur West BAI

#### Visiting Lecturers

David Bailey FRICS

John MacD Broadhead MA FRICS

Noel J Dooley FRICS FIARb

Noel McDonagh FRICS

Kevin I Nowlan BSc BE MTPI

Barrister-at-Law

Ian Roberts MA MAI BArch (Cams) FRICS

Richard White BE BSc FRICS

Aiden Williams FRICS



## ACADEMIC STAFF

### School of Engineering

Head of School : John D Barry MSc BE CEng MIMechE MICEI  
Assistant Head : Denis Fitzgibbon BE CEng AMIMechE

#### Department of Engineering Technology

Head of Department :  
Denis Fitzgibbon BE CEng AMIMechE  
Assistant Head of Department (Acting):  
Michael O'Donnell MEconSc BE BComm CEng  
AMIProdE

#### Whole-time Staff

Michael Clifton BE AMICEI  
Jeremiah T Cotter BSc  
Neil Gillespie GradIMechE GIHVE  
Gerard Lawlor MSc  
John McQuillan CEng AMIMechE  
Donal Murphy GradIED  
Henry J O'Neill CEng MIProdE  
D O'Regan MSc  
Louis R Purton BSc  
Michael Swords BSc (London)  
Henry F Taylor CEng AMIMechE  
Liam Archer GIMechE

#### Extern Lecturers & Examiners

Professor F Koenigsberger DSc MIMechE  
MemASME MIProdE Professor of Machine  
Tool Engineering University of Manchester  
Institute of Science and Technology  
Professor B Crossland MSc PhD DSc  
MIMechE Head of Department of Mechanical  
Engineering Queen's University Belfast

#### Part-time Staff

Edward Tunde Boardman DipEng GIMechE  
John B Broderick MSc  
John P Browne BE  
Philip Brunkard GIMechE  
Richard Bunyan BE GIMechE  
Albert F Cunnane BE GIMechE MIWSI  
Patrick F Cooke BE AMICE AMICEI  
James Daly BE AMICE AMICEI

Richard Daly  
J Doran BE  
Edward P Dunne CEng AMIMechE AMICEI  
Patrick J Dunphy DipEng GIMechE  
Finbar Fitzgibbon BE MSA  
James J Harrington BE CEng AMIStructE  
Lewis Healy BE  
Seamus J Homan AMIHVE  
Stanislaus Kenny BE MICE AMICEI  
Padraig MacLoughlin BE  
Michael McSweeney BE  
J F McGinty BE  
Eamonn J O'Brien AMIHVE  
William Rex O'Brien AMIStructE  
Aidan O'Connor DipEng  
Richard F O'Leary  
James P Owens BE  
James Roche  
Declan Ryan BE  
David Semple  
Andrew Whelan ME AMICE AMICEI  
Frank Wight AMIBF HNC  
D Wills BE

#### Department of Science and Mathematics

Head of Department: James A Nunan  
BSc HDipEd  
Assistant Head: Gerard Lawlor MSc

#### Whole-time Staff

Jeremiah T Cotter BSc  
Una Gillespie BSc  
Matthew Niall MSc BComm

Marguerita O'Kelly BA BSocSc DipSocSc  
HDipEduc  
Louis R Purton BSc  
Michael Swords BSc (Lond)  
Mary Tully MSc HDipEd  
Daniel J O'Regan BSc MIEE

#### Part-time Staff

Patrick J Allen BA HDE(Hons)  
P Boyle MSc  
William E Boyers BA HDipEd BSc  
Paschal C Brennan BA  
John B Broderick MSc  
Elizabeth Clancy MSc  
J Corish BSc  
Martin Flinter MSc  
John J Gallagher BSc  
M Healy BA  
Edward P Lynch BA  
Owen McBreen MSc  
James P McLaughlin BSc  
Patrick M Maguire BSc  
Edmund O'Brien BSc  
Seamas O'Dea MA HDipEd  
William J O'Doherty BA HDipEd  
Raymond J O'Kelly MSc  
Denis F O'Sullivan MSc PhD  
Desmond A Scannell BSc

#### Whole-time Staff

Desmond Aungier  
Denis McGrath  
Charles B O'Brien GradIPlantE  
Joseph Shiels

#### Part-time Staff

Patrick J Buckley  
Patrick T Byrne  
Peter Deane  
Christopher Duffy  
John Ferrie  
William Fleming  
John Gaynor  
William D Hughes FTC (C & G)  
John Keaney  
James F Lawless  
Murtagh Logan  
Gerald J Meghen HTC  
John Moran  
Gerard F Murphy  
Timothy P Murphy MIMarE  
Desmond O'Carroll  
Sean O'Farrell  
Kenneth O'Galligan  
Andrew O'Hanlon  
James Roche  
Liam R Wynne

#### Department of Engineering Trades

Head of Department : Tomás Mac Carthaigh  
MICert  
Assistant Head: John Gribben MI (Hons)

#### Department of Aeronautical Engineering

Head of Department: Thomas McInerney  
AMSLAE ACD & X Licences  
Assistant Head: Vacant



**Whole-time Staff**

William J Brazil

**Part-time Staff**

James Roger Bourke  
Daniel Brennan A & C Licence  
James Coleman X Licence PMG  
Eamonn K Dempsey  
James Donohoe AME  
Alberic Doody AME  
Michael P Healy BA  
Thomas Higgins AME  
James S Hogan AME  
Patrick Hogan AME  
John A Hughes  
Denis McMahon  
Patrick M Murphy LAE  
Edwin T O'Connor  
Andrew O'Neill AME  
Denis O'Regan  
Joseph F Walsh ASLAE  
Douglas Wilson

**Department of Automobile Engineering**

Head of Department : John Guirke AMIMI  
Manual Instructor's Certificate (Honours)  
Assistant Head : Richard Dowling MIMI

**Whole-time Staff**

John A Butler AMInstF DipEng GIMechE  
Timothy Giblin

Alan Harbron SIMT TechDip  
Michael Kelly SIMT TechDip  
Arthur McDermott AMIMI DipSocSc  
James McGauran SIMT TechDip  
Paul Purcell SIMT TechDip

**Part-time Staff**

John N Brooks BE AMIMechE CEng  
Charles A Bryan AMIMI  
Fintan Byrne GradIMI  
Thomas Carroll AMIMI  
Michael J Chester AMIMarE CEng  
Elizabeth Clancy BSc  
William Costello DipEng GIMechE  
William J Doherty  
Edward P Dunne CEng AMIMechE AMICEI  
Patrick Furey BE  
Vincent Hand  
Laurence F Higgins AMIMechE  
Reg Keating GIHVE  
Brendan A Kelly GradIMI  
Martin Noel Kennedy BE AMIME  
Patrick Lamon SIMT TechDip  
Michael Long  
Brian McCarrick GradIMechE  
Donal McGonnell GradIMechE  
Eugene McInerney GradIMechE DipEng  
John McNamara  
Desmond Maguire  
Stephen Mason  
Patrick Morgan  
R H Murphy GradIMechE  
Patrick Murray  
John Newman  
John O'Gorman GradIMI  
Herbert O'Leary  
Michael O'Neill GradIMI  
G Pello AMInstF

**ACADEMIC STAFF****School of Printing and Book Production**

Head of School : William J Fitzpatrick AMIOP

Assistant Head : Christopher McCullagh Final C & G

Dept Assistant (Letterpress Machine) : Philip O'Reilly FTC (C & G)

**Whole-time Staff**

John Bennett FTC (C & G)  
Patrick Daly FTC (C & G)  
John M Foley FTC (C & G)  
Joseph B Kennedy Final C & G  
Matthew Niall MSc BComm  
Proinsias O hEifearnáin BA Final C & G  
Dara O Lochlainn NDD MSTD MDIA  
Brendan Quinn Final C & G  
Joseph Reddin FTC (C & G) AMI PtgM  
Kenneth Richards Final C & G  
Robert Sharpe Final C & G

**Part-time Staff**

Peter A Barry Final C & G  
William E Boyers BA HDipEd  
Joseph Blake  
Bernard Culligan

Ciaran Donaghy BA BComm

Ronald Ennis  
Alex Gemmell  
Bartholomew Hempton  
James P Keane  
William Kelly  
Michael John Kennedy  
Stanley McDonald  
Bill Murphy NDD MSIA  
Rex MacDonnell MIAP  
Allan McLeod-Martin ACCS  
Andrew D Morris FTC (C & G)  
Joseph E O'Byrne  
Jerome O'Loughlin NT  
Henry Owens  
James Ross  
Aidan Ryan  
Shamus Wade MIAP AGMA  
Kevin Waldron  
Kevin B Walsh

## ACADEMIC STAFF

### School of Trades

Head of School : John B Hickey BA

#### Department of Building Trades "A"

(Bricklaying and Masonry Furniture Plastering  
Painting and Decorating Vehicle Building  
Vehicle Trimming and Vehicle Painting)

Head of Department:

Robert C Grimes FTC (C & G)

Head of Furniture Division:

Michael C Murray Hons C & G

#### Whole-time Staff

Charles Costello

Frederick Hosford

Joseph Lawlor

Gerard O'Toole

#### Part-time Staff

Christopher Byrne

Francis D Caulfield

Denis Cox

James Farrell

James Fitzpatrick

John Kenny

Patrick Lawlor

Sean Mac Conaill

John McCormick

Liam Milner MSIA

Seamus S O'Dea MA HDip

John P Stephens

John Thorpe

#### Department of Building Trades "B"

(Carpentry and Joinery and Woodcutting  
Machinery)

Head of Department: Thomas Bridgeman

ABICC FTC (C & G)

Assistant Head: Joseph P O'Byrne FTC

(C & G) LIOB

#### Whole-time Staff

Michael Bridgeman

Thomas Byrne

Andrew Dunne FTC (C & G)

Brendan Dunne LBldg SI LIOB FTC C & G

Aidan Halpin ABICC Final C & G

Patrick Kelly Final C & G

Thomas Kiernan FTC (C & G)

Michael McDonnell

John McGuirk

#### Part-time Staff

Louis Byrne ABICC

Donal Cooper

Patrick Hannigan

Sean Rogers Final C & G

James Wall

## Academic Staff

#### Department of Metal Fabrication

Head of Department : John G Bolton

AMInstW FTC (C & G)

#### Whole-time Staff

James F Bartley Final (C & G)

Nicholas Murray AlnstW

Anthony O'Toole FTC (C & G)

Joseph Quinn AlnstW

Brendan Rooney ClnstW Final (C & G)

Daniel Rooney FTC(C & G) MRSH

#### Part-time Staff

Joseph Noel Armstrong C & G Tech

Patrick Bolton Final C & G

James Bryan Final C & G

Sean Buckley BCD

Albert Byrne Final C & G

William F Carroll

Peter Cowley AlnstW

Christopher Devine

Noel Dunne

Michael C Foran

William Jackson Final C & G

Michael Kane

John F Lynskey

Michael McDaid

Francis N McGloughlin

George Mackey AMInstW

Seamas P Mohan

Joseph K Walsh Final C & G

Thomas Colley

Noel Mullins AlnstW

#### Spiritual Directors

Senior Chaplain: Rev John McAvoy SJ

Rev Edward McAsey SJ

Rev Dermot McKenna SJ

Rev Gerald P Nolan SJ

Rev Kieran Barry-Ryan SJ

Rev Brian Scallan SJ

#### Physical Education

Micheal C Doogan



## General Regulations

General regulations for Schools and Classes operating under the Authority of the City of Dublin Vocational Education Committee are displayed in the Entrance Hall. All students are subject to these regulations

### Whole-time Courses

Students are admitted at the commencement of the session in September. Applications for admission should be submitted as soon as possible, preferably before the 1st June, on the form obtainable from the Secretary. Candidates awaiting results of examinations may make provisional application. Qualified applicants will be called for interview in September, and may be required to take an entrance examination. Documentary evidence of qualifications should accompany all applications.

### Technician Courses

Admission is confined to candidates who have attained such a standard of general education as will enable them follow all the subjects of their course. Details of special entrance requirements are shown in the relevant sections of this prospectus. Application requirements are similar to those for whole-time professional courses.

### Trade Courses

These classes are provided for the sole purpose of supplementing the practical trade training of persons actually employed at and engaged in the various operations of the trade. The College Council realises that it is impossible for a person to learn a trade solely by attendance at these classes and is further of the opinion that the admission to the classes of persons not actually engaged in the trades would be not only of little use to such persons but would prejudicially affect the instruction of those for whom the classes have been organised. Accordingly, the College Council

reserves the right to restrict enrolment in the trade practical classes to those persons who are actually employed in the several processes and operations of the trade. For admission to these classes proof of actual employment in the several processes and operations of the trade will be certificates to that effect from the Masters' Associations and/or the official Trades Unions of the trade concerned.

**Applications from Foreign Students** must be accompanied by a letter of recommendation from the diplomatic representative of his country in Ireland or where there is no such representative, from the Ministry of Education in his country.

### Attendance

The Vocational Education Committee may exclude any student from the College without refund of fees for irregular or unpunctual attendance or misconduct, or for any other reason which in the opinion of the College Council justifies exclusion. Three successive absences in any one class subject may lead to suspension from the complete course unless the Principal is informed in writing of the reason.

### Changes in Class

The Vocational Education Committee may change any or all of the syllabus, the day and time of meeting of any class and may cancel classes where the enrolment or attendance is considered inadequate. If for some urgent reason a teacher cannot attend or arrange for a deputy, classes may be cancelled without notice.

## Rules and Regulations General Information

### Change of Address

Change of address or place of employment should be reported to the Office immediately.

### Change of Classes

No exchange of classes may be made without the consent of the Head of Department.

### Loss of, or Damage to Personal Property

Whilst every reasonable precaution is taken, the College cannot accept responsibility for damage to or loss of students' property. Bicycles and motorised cycles brought to the College premises by students should be locked and placed in the storage spaces provided. Coats, books, etc., should be clearly marked with the owner's name.

### Damage to Equipment and Premises

The cost of the repair or replacement of College property damaged by a student shall on demand be paid to the College Authority by the student responsible for such damage.

### Sessional Examinations

Examinations are held at the end of Session, no student shall be admitted to the Examinations who has not made at least three-fourths of the possible attendance except in special circumstances and at the discretion of the Head of Department. Promotion to a Higher Stage of instruction in any subject is contingent on passing the Sessional Examination in the Lower Grade.

### Homework

Students are required to submit regularly such homework as may be prescribed by members of the teaching staff.

### Laboratory Record

An Experimental Record Book is required to be maintained by each student of a Laboratory Class: an assessment shall be made at the end of Session of each student's progress in Laboratory Techniques and experimental ability which will count in the Sessional Examination in that subject.

### Discipline

Any member of the teaching staff issuing a directive to any student misconducting himself on the College premises is authorised to enforce disciplinary measures, and the Principal may immediately suspend the student(s) pending a hearing of the charges by the College Council. Students must enter and leave the College buildings in a quiet and orderly manner, and must refrain from making unnecessary noise in corridors or classrooms. The full co-operation of each student is invited in order to maintain the dignity and discipline of the College.

### General Information

Day Classes will normally be held from 9 a.m. to 12.30 p.m. and 2 p.m. to 5 p.m. each week-day except Saturday unless special arrangements are made in specific cases. Evening Classes will normally be held from 7 p.m. to 10 p.m. except where shown otherwise. Office Hours: 9 a.m. to 12.30 p.m. and 2 p.m. to 5 p.m. Monday to Friday, and at special periods of the year at times which will be posted on the Notice Board. Except during enrolment periods members



of the teaching staff will not be available for interviews except by prior appointment.

#### Fees

Fees are payable on enrolment and no student will be permitted to attend any class until the proper fees have been paid. Guarantees may be accepted from local authorities, educational establishments or employers.

Fees will not be refunded except where a course does not form or where a student, with the consent of the Head of his department, withdraws his application before the commencement of the course.

The sessional fees are shown under the headings for the various courses.

#### Examinations

Closing dates and fees for examinations conducted by the Department of Education, the City and Guilds of London Institute and other bodies are displayed on the College Notice Board as they occur.

An entrance fee of 2 guineas is payable in respect of the First, Second and Third Year Examinations in Architecture. A candidate may be permitted to sit for one supplementary examination without payment of a further fee.

#### Library

Students attending full-time and part-time day courses have access to the College Library. By arrangement with the Corporation of Dublin, the College Librarian can obtain from any of the public libraries in Dublin any special reference book or

text book required by a student.

The removal of books or journals from the Library is not permitted.

#### Refectory

The students' Refectory is open throughout the session for lunches, teas and morning and afternoon teas and coffee.

## GUIDE TO COURSES

### TECHNOLOGICAL & TECHNICIAN COURSES (DAY)

#### Architecture, Surveying & Building

D/1 Architecture Diploma Course. Whole-time.

D/2B. Higher Building Technicians' Certificate. Whole-time.

D/2C. Building Technicians. Part-time.

D/3B. Diploma Course in Environmental Economics (Progressively supersedes courses in General Surveying). Whole-time.

D/4B. Diploma Course in Construction Economics (Progressively supersedes courses in Building Technology & Quantity Surveying). Whole-time.

D/4C. Course for Building Technicians' (progressively supersedes Part-time course in Quantity Surveying). Part-time.

D/5. Diploma Course in Land Surveying. Whole-time.

D/6A. Town & Regional Planning. Whole-time

D/6B. Town & Regional Planning. Part-time.

D/7. Health Inspectors' Diploma Course. Sandwich.

D/8. Architectural Technicians. Whole-time.

D/40. Preliminary Course. Whole-time.

D/41. Pre-professional Course in Engineering. Whole-time.

D/42A. Diploma Course in Mechanical Production & Structural Engineering. Whole-time.

D/42B. Part-time Professional Course.

D/42C. Mechanical Engineering Technicians' Course. Part-time.

D/42D. Heating, Ventilating & Airconditioning Technicians. Part-time.

D/42E. Civil Engineering Technicians. Part-time.

D/42F. Civil Engineering Works Managers. Part-time.

D/43. Engineering Draughtsmanship. 1st Year Whole-time, 2nd & 3rd Year Part-time.

D/44. Automobile Engineering. Whole time.

D/45. Aircraft Technicians' Course. Sandwich.

D/46. Engineering Apprentices' Courses. A. Sandwich; B. Part-time Sandwich.

D/47. Trainee Draughtsmen. Sandwich.

D/152. Heating and Ventilating Technicians. Part-time.

D/170. Motor Vehicle Technicians. Part-time.

#### Printing + Graphic Design

D/81. Printing Technology. Part-time.

D/82. Training for Administrative Staff. Part-time.

D/86. Graphic Design. Part-time.

### TECHNOLOGICAL & TECHNICIAN COURSES (EVENING)

#### Architecture, Surveying and Building

E/1B. Course for Building Technicians (progressively supersedes course in Building Technology).

E/2. Land-surveying and Levelling.

E/3. Timber Technology.

#### Engineering

E/40. General Certificate in Education.

E/41. Graduate Courses in Engineering.

E/42. Certificate Engineering Technicians' Course.



E/42C. Mechanical Engineering Technicians' Course.  
 E/42D. Heating, Ventilating and Airconditioning.  
 E/43. Engineering Draughtsmanship.  
 E/44B. Jig & Tool Design Technology.  
 E/46. Aeronautical Engineering Technicians.  
 E/47. Diesel Maintenance.  
 E/48. Welding Technicians' Course.  
 E/49. Automobile Engineering Technician.  
 E/50. Refrigeration Engineering Technicians.  
 E/51. Instrument Measurement & Control.

#### Printing

E/81. Printing Technology.  
 E/82. Training for Administrative Staff.  
 E/83. Applied Printing.  
 E/84A. Costing.  
 E/84B. Estimating.  
 E/85. Paper Technology and Marketing.  
 E/86. Typographic Design and Layout.  
 E/89. Basic Diploma Course in Advertising.  
 E/90. Diploma Course in Advertising.

#### Short Courses

Each session, short courses are held consisting, usually, of eight to twelve lectures relating to special aspects of Building, Engineering or Printing Technology. Details of these short courses are advertised in the daily newspapers.

#### TRADE COURSES (PART-TIME DAY)

##### Architecture, Surveying and Building

D/101. Bricklaying.  
 D/102. Furniture Trades.  
 D/103. Carpentry and Joinery.  
 D/105. Painting and Decorating.  
 D/106. Plumbing.  
 D/107. Vehicle Building.  
 D/108. Woodcutting Machinists' Work.  
 D/109. Vehicle Trimming.  
 D/110. Woodfinishing.  
 D/111. Upholstery.

##### Engineering

D/141. Fitting and Turning. Block release.  
 D/142A. Automobile Engineering Technicians. Block release.  
 D/142B. Automobile Engineering Craft. Block release.  
 D/143. Gas & Electric Welding. Part-time.  
 D/149. Sheet Metal. Part-time.  
 D/150. Structural Steel & Boilermakers. Part-time.  
 D/151. Heating and Ventilating Engineering Craft Practice. Part-time.

##### Printing

D/183. Letterpress Machine Work. Block release.  
 D/184. Process Engraving. Part-time.  
 D/185. Linotype, Intertype and Teletypesetting. A. Whole-time; B. Part-time.  
 D/188. Stereotyping and Electrotyping. Part-time.  
 D/190. Compositors' Work. Block Release.  
 D/191. Bookbinding and Warehouse Work. Block Release.  
 D/192. Lithography and Photo-Lithography. Block Release.  
 D/195. Film Make-up. Block release.

#### TRADE COURSES (EVENING)

##### Architecture, Surveying and Building

E/101. Bricklaying.  
 E/102. Furniture Trades.  
 E/103. Carpentry and Joinery.  
 E/105. Painting and Decorating.  
 E/106. Plumbing.  
 E/107. Vehicle Building.  
 E/108. Woodcutting Machinists' Work.  
 E/109. Vehicle Trimming  
 E/110. Plastering.  
 E/111. Furniture Design  
 E/112. Furniture Production.

##### Engineering

E/141. Fitting and Turning.  
 E/142. Motor Mechanics' Work (Advanced).  
 E/143. Gas and Electric Welding.  
 E/144. Patternmaking.  
 E/145. Foundry Work.  
 E/146. Brassfinishing.  
 E/147. Boilermaking.  
 E/148. Smith and Art Ironwork.  
 E/149. Metalplate Work.  
 E/150. Structural Steelwork.  
 E/151. Heating Engineering Fitters.

##### Printing

E/181. Book Finishing and Book-Edge Gilding. Artistic Book Finishing.  
 E/185. Linotype, Intertype and Teletypesetting.  
 E/186. Monotype Casting.  
 E/187. Monotype Keyboard.

#### PHYSICAL EDUCATION

E/201. Physical Education for Men.

### Technological and Technician Courses (Day)



## TECHNOLOGICAL & TECHNICIAN COURSES (DAY)

### DIPLOMA COURSE IN ARCHITECTURE

#### Entrance Standard

The preliminary educational qualifications required for enrolment are as follows:—

1. (a) Matriculation of the National University of Ireland.
- (b) Matriculation of London University.
- (c) Matriculation of Queen's University, Belfast.
- (d) An Examination exempting from any of the foregoing.

(A candidate claiming exemption on this head shall submit written evidence of such exemption.

The applicant shall have passed in the following subjects:

1. Mathematics.
  2. English.
  3. French, German, Italian or Spanish.
- And passed in at least **two** of the following subjects.
4. (a) One or more other Languages (including those listed under (3)).
  - (b) Physics.
  - (c) Chemistry.
  - (d) Mechanics (or Applied Mathematics or Mathematical Physics).
  - (e) History.
  - (f) Geography.

#### Note:

Up to 1967, Irish will also be accepted under 3 above.

Candidates who have Matriculated on or before 1966 or who have passed a recognised qualifying examination as defined under 1 (a), (b), (c) or (d) may present an alternative set of subjects as follows:—

1. Mathematics.

2. English.

3. Irish or another Language.

4. Latin, Classic Greek, French, Italian, Spanish, German, Russian or Portuguese.

And passed in at least **one** of the following subjects:—

5. (a) Physics.
- (b) Chemistry.
- (c) Mechanics, or Applied Mathematics or Mathematical Physics.
- (d) History.
- (e) Geography.

Subjects of Instruction are:—

#### First Year

Studio Work; Building Construction and Materials; History of Architecture; Mathematics; Mechanics; Physics; Chemistry; Geometry.

#### Second Year

Studio Work; Theory of Architecture; History of Architecture; Building Construction; Building Services I; Theory of Structures; Craftwork.

#### Third Year

Studio Work; Theory of Architecture; Building Construction; Building Services II; Building Materials; Structural Engineering; Craftwork; Surveying and Levelling.

#### Fourth Year

Studio Work; Theory of Architecture; Building Construction; Structural Engineering; Professional Practice (including Cost Controls and Site Management); Interior Design (including furniture design); Town Planning Theory (including Sociology); Economics.



**Fifth Year**

Studio Work; Structural Engineering; Professional Practice; Town Planning (Theory); Specifications and Materials. Studio Work includes Architectural Drawing Architectural Design, Building Construction,

Drawing, Graphics and in the case of the First Year only, Geometrical Drawing, and in the case of the Fifth Year only Landscape Design.

Fee £50 per annum.

**D/2B. HIGHER BUILDING TECHNICIANS' CERTIFICATE COURSE**

A pass level course leading to a Certificate in **Building Technology**. The course is of three years' duration and designed to prepare students for Licentiatehip of the Institute of Building and the Building Surveyors' Institute and Technician Membership of the Incorporated Association of Architects and Surveyors.

**Subjects :****First Year**

Mathematics; Science; Logic; History and Structure of the Building Industry; Principles of Accountancy; Functional Elements of Construction.

**Second Year**

Building Science; Building Construction and Services (Elements); Land Surveying and Setting Out (Elements); Site and Office

Organisation; Works Study and Costing (Elements); Equipment and Safety Regulations.

**Third Year**

Principles of Structural Design; Building Construction and Services (Advanced); Building Law; Building Economics; Measurement and Price Build-up; Land Surveying and Setting Out (Advanced).

**Practical Experience:**

Students are required to gain Industrial and Professional experience during the extended summer vacations.

**Entry Qualifications :**

- (a) The Secondary Schools Leaving Certificate.
- (b) The Matriculation Certificate of a recognised University.
- (c) The General Certificate of Education.

Fee £40 per annum.

**D/3B. DIPLOMA COURSE IN ENVIRONMENTAL ECONOMICS**

(Progressively supersedes Course in General Surveying)

An honours level course leading to a Diploma in either **Estate Management** or

**Town Planning**. The course is of four years' duration and designed to prepare students for Associateship of the Royal Institution of Chartered Surveyors.

**Subjects :****First Year**

Mathematics; Science; Logic; Human Organisation and Environment; Principles of Law; Mathematical Statistics; Principles of Accountancy; Economics; Functional Elements of Construction.

**Second Year**

Building Science; Building Construction and Services; Law of Contract; Law of Property (Elements); Planning and Compensation Law; Land Surveying (Elements); Town and Country Planning (Elements); Valuations (Elements); National and Local Taxation (Elements).

**Third Year**

Design and Construction Economics; Economics of Land Use (Elements); Law of Obligations, Rights and Easements; Law of Property (Advanced); Land Surveying (Advanced); Town and Country Planning (Intermediate); Valuations (Intermediate); National and Local Taxation (Advanced); Estate Management (Elements).

**Fourth Year****Diploma in Estate Management**

Estate Management (Advanced); Valuations (Advanced); Estate Development; Computer Applications; Arbitrations and Tribunals; Thesis on an Aspect of Estate Development.

**Diploma in Town Planning**

Town and Country Planning (Advanced); Economics of Land Use (Advanced); Estate Development; Computer Applications, Arbitration and Tribunals; Thesis on an aspect of the Economics of Land Use.

**Practical Experience**

Students are required to gain Industrial and Professional experience during the extended summer vacations.

**Entry Qualifications**

- (a) The Secondary Schools Leaving Certificate with a minimum of two subjects at honours level.
- (b) The Matriculation Certificate of a recognised University.
- (c) The General Certificate of Education with a minimum of two subjects at Advanced level.

Fee £50 per annum.

**D/4B. DIPLOMA COURSE IN CONSTRUCTION ECONOMICS**

(Progressively supersedes Courses in Building Technology and Quantity Surveying)

An honours level course leading to a diploma in either **Building Management** or **Quantity Surveying**. The course is of four years'

duration and designed to prepare students for Associateship of the Royal Institution of Chartered Surveyors, The Institute of Building, The Building Surveyors' Institute, The Institute of Quantity Surveyors and the Incorporated Association of Architects and Surveyors.



**Subjects :****First Year**

Mathematics; Science; Logic; History and Structure of the Building Industry (Introductory); Principles of Law; Mathematical Statistics; Principles of Accountancy; Economics; Functional Elements of Construction.

**Second Year**

Building Science; Building Construction and Services (Elements); Law of Contract; Law of Property; Land Surveying and Setting Out (Elements); Site and Office Organisation; Works Study and Costing; Quantities (Elements); Structure of the Industry (Communications).

**Third Year**

Principles of Structural Design; Building Construction and Services (Advanced); Law of Obligations, Rights and Easements; Land Surveying and Setting Out (Advanced); Project Planning and Network Analysis (Elements); Estimating (Elements); Quantities (Intermediate); Repair and Maintenance of Buildings; Structure of the Industry (Economic).

**Fourth Year****Diploma in Building Management**

Principles and Practice of Management;

Project Planning and Network Analysis (Advanced); Estimating (Advanced); Computer Applications; Arbitrations and Building Contracts; Thesis on an aspect of the Industry.

**Diploma in Quantity Surveying**

Quantities (Advanced); Cost Planning and Research; Economics of Building Construction and Development; Computer Applications; Arbitrations and Building Contracts; Thesis on an Aspect of Cost Research.

**Practical Experience**

Students are required to gain Industrial and Professional experience during the extended summer vacations.

**Entry Qualifications**

- (a) The Secondary Schools Leaving Certificate with a minimum of two subjects at honours level.
  - (b) The Matriculation Certificate of a recognised University.
  - (c) The General Certificate of Education with a minimum of two subjects at Advanced level.
- Fee £50 per annum.

**D/4C. PART-TIME COURSE FOR BUILDING TECHNICIANS**

(Progressively superseded Part-time Course in Quantity Surveying) The course is of four years' duration with attendance on one whole day and two evenings each week and is designed to

prepare students for the Advanced Technological Certificate examinations of the Department of Education and the Construction Technicians' Certificate Examination of the City & Guilds of London

Institute (which leads to Technician Membership of the Institute of Building).

**Subjects :****First Year**

Building Science; Building Construction and Services; Building Calculations; Principles of Structural Design.

**Second Year**

Building Science; Building Construction and Services; Building Calculations; Safety Regulations; Principles of Structural Design.

**Third Year**

Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out; Elements of Administration.

**Fourth Year**

Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out; Elements of Administration.

**Practical Experience**

Students are required to be employed in the Building Industry.

**Entry Qualifications**

- (a) The Secondary Schools Leaving Certificate.
- (b) The Matriculation Certificate of a recognised University.
- (c) The General Certificate of Education.

Fee £25 per annum.

**D/5. DIPLOMA COURSE IN LAND SURVEYING**

An honours level course leading to a Diploma in Land Surveying. The course is of four years' duration and designed to prepare students for Associateship of the Royal Institution of Chartered Surveyors.

**Subjects :****First Year**

Pure Mathematics I.  
Applied Mathematics I.  
Physics I.  
Elementary Surveying and Cartography I.  
Geology I.  
Law of Property.  
Land Registration.  
Logic.

**Second Year**

Pure Mathematics II.  
Applied Mathematics II.  
Physics II.  
Elementary Surveying and Cartography II.  
Geology II.  
Surveying Instruments.  
Engineering Survey I.

**Third Year**

Mathematics and Theory of Errors.  
Cadastral Survey.  
Field Astronomy I.  
Control Surveys I.  
Photogrammetry I.  
Engineering Surveys II.  
Hydrographic Surveys.  
Least Squares and Survey Adjustment.  
Projection Computation.



**Fourth Year**

Photogrammetry II.  
Control Surveys II.  
Field Astronomy II.  
Geodesy.  
Urban and Regional Planning.  
Computer Applications.  
Thesis on an aspect of Land Surveying.

**Practical Experience**

Students are required to gain practical experience during the extended summer vacations.

**Entry Qualifications**

- (a) The Secondary Schools Leaving Certificate with a minimum of two subjects at honours level.
- (b) The Matriculation Certificate of a recognised university.
- (c) The General Certificate of Education with a minimum of two subjects at Advanced level.

Fee £50 per annum.

**D/6A. TOWN AND REGIONAL PLANNING (WHOLE-TIME)**

This is a two-year full-time course, the second year may be part-time which prepares students for the Final Examination of the Town Planning Institute and leads to a Diploma of Town and Regional Planning.

**Entrance Standard**

Students are required to have passed or to be eligible for exemption from the Intermediate Examination of the Town Planning Institute.

**Subjects**

Planning Theory, Planning Techniques, Planning Practice, Planning Law and Public Administration, Civic Design, Landscape Design, Economics of Land Use, Economic Geography and Geology, Sociology, Environmental History, Communications, Public Utility Services, and Practical Work.

Fee 1st Year £70 per annum.

2nd Year £35 per annum.

**D/6B. TOWN AND REGIONAL PLANNING (PART-TIME)**

This is a three-year post-graduate course to prepare students for the Final Examination of the Town Planning Institute. It involves part-time day and evening attendance.

**Entrance Standard**

Same as for Course D/6A.

**Subjects**

Same as for Course D/6A.

Fee £35 per annum.

**D/7. DIPLOMA COURSE IN HEALTH INSPECTION**

A course of four years' duration organised in consultation with the Department of Health and the Health Inspectors' Training Board. The Department of Health is responsible for the selection and sponsoring of students.

**Subjects :****First Year**

Mathematics; Biology; Micro-biology; Anatomy and Physiology; Chemistry; Physics; Building Construction and Draughtsmanship; Theory of Structures; Local Government Law and Administration; Elementary Hygiene and Introduction to Food Hygiene; Philosophy.

**Second Year**

Statistical Mathematics; Entomology and Parasitology; Micro-Biology; Food and Food Inspection; Chemistry and Physics; Offensive Trades and their Control; Building Construction and Draughtsmanship; Building Science; Public Health Law and Administration and Report Writing; Surveying and Levelling; Drainage and Sewerage; Water Supplies.

**Third Year**

Vital Statistics; Pest Control; Public Cleansing; Food and Food Inspection—Food

and Drugs; Specifications, Quantities, Costing and Estimating; Atmospheric Pollution; Building Construction; Heating, Lighting and Ventilation; Public Health Law and Administration and Report Writing; Infectious Diseases and their control; Drainage and Sewerage; Water Supplies.

**Fourth Year**

Radiation, Health, Safety and Disposal, Radiation Hazards; Port and Airport Sanitation; Health Education; Food and Food Inspection; Inspection, Report Writing and Office Administration; Atmospheric Pollution; Building Hygiene; Heating, Lighting and Ventilation; Public Health and Housing Law; Public Cleansing.

**Practical Experience**

Students spend six months of each year in the field.

**Entry Qualifications**

- (a) The Secondary Schools Leaving Certificate.
- (b) The Matriculation Certificate of a recognised University.
- (c) The General Certificate of Education.

Fee £50 per annum.

**D/8. CERTIFICATE COURSE FOR ARCHITECTURAL TECHNICIANS**

This is a three-year whole-time course designed to train Architectural Technicians and leading to the Architectural Technicians' Certificate. The Final examination of the course is accepted as a qualification for

Associate membership of the Institute of Architectural and Associate Technicians, and for membership after two years of practical experience. The course extends from mid-October to



mid-May and during the Summer vacation students are required to gain approved practical experience in professional offices. This vacation work is optional between 1st and 2nd year and mandatory between the 2nd and 3rd year.

#### Entrance Standard

The Secondary Schools' Leaving Certificate in five subjects which must include Mathematics and English.

#### Subjects :

##### First Year

Maths, Building Science, Mechanics, Surveying & Levelling, Geometry, Building Construction, Free Drawing,

History of Architecture, Architectural Drawing.

##### Second Year

Building Construction, Building Materials & Specifications, Building Science, Structures, Surveying & Levelling, Building Services, Architectural Drawing.

##### Third Year

Building Construction, Building Materials, Structures, Building Services, Surveying & Levelling, Structure of the Building Industry, Architectural Practice and Procedure.  
Fee £30.

### D/40. PRELIMINARY COURSE

This is a one-year whole-time course commencing each year in mid-September. Its purpose is to prepare suitable students for entry to the Pre-Professional Course in Engineering or for positions as junior engineering technicians in industry.

#### Entrance Requirements :

(a) Leaving Certificate of the Department of Education with passes in Mathematics, English, and three other subjects; or (b) have satisfactorily completed a recognised post-Intermediate (or Group Certificate) continuation course.

#### Course of Study :

The subjects studied are :  
Applied Mathematics, Mathematics, English,

Physics, Chemistry, Engineering Drawing, Workshop Practice, Social Science and Physical Education.

#### Examinations and Other Requirements

Students are required to

- take the College examinations at the end of the session;
- take the G.C.E. examinations at "O" Level in Additional Pure Mathematics, Physics, Chemistry, Technical Drawing and English Language.
- have a satisfactory attendance record in all subjects;
- present laboratory notebooks and year's work to the satisfaction of the College authorities.

Fee £15 per annum.

### D/41. PRE-PROFESSIONAL COURSE IN ENGINEERING

This is a one-year Sandwich Course consisting of eight months' academic work commencing in mid-September, and three months' practical training in industry. Its purpose is to prepare suitable students for entry to the Diploma Courses in Mechanical and Production Engineering.

#### Entrance Requirements

- Leaving Certificate of the Department of Education with honours in Mathematics, Physics, English and two other subjects;
- The General Certificate of Education at Ordinary Level in Additional Pure Mathematics, Physics, English Language, and two other subjects;
- Such other qualifications as the College may deem to be appropriate.

#### Course of Study

The subjects studied are :—

German, Mathematics & Applied Maths, Engineering Drawing, Experimental Physics,

Chemistry, Philosophy, Practical Engineering and Tutorials.

#### Examinations and Other Requirements

Students are required to :—

- Take the College examination at the end of the session.
- Take the G.C.E. at Advanced Level in Mathematics, Physics. They may also take the "A" Level examination in Technical Drawing and Applied Mathematics.
- Have a satisfactory attendance record in all subjects.
- Present laboratory notebooks and year's work to the satisfaction of the examiners.
- Complete the vacation training programme at the end of the year.

#### Membership of Professional Institutions

Students are strongly urged to apply to the appropriate Engineering Institution for Student Membership when they have satisfactorily completed this course.

Fee £35 per annum.

### D/42A. DIPLOMA COURSE IN MECHANICAL, PRODUCTION & STRUCTURAL ENGINEERING

#### (1) Mechanical Engineering

This is a three-year sandwich course consisting of eight months' academic work each year commencing in mid-September, and three months' practical training in industry. The following schemes are in operation.

- College-Based Scheme.** Suitable students are enrolled by the College, which then directs their academic studies and assists in arranging vacation training each summer.

Certain Local Authorities award scholarships which are applicable to this course and students should apply to their local body.

- Industry-Based Scheme.** Suitable students whose employers are prepared to sponsor them for the duration of the course may be admitted. Employers make their own arrangements with their students regarding the payment of fees, wages, books,



etc. The practical training in industry is designed by the College in collaboration with the industrial sponsor.

#### Entrance Requirements to the First Year

- (a) Passes at Advanced Level in the General Certificate of Education examinations in Physics and Mathematics or Applied Mathematics, and
- (b) Passes in English and two other subjects at G.C.E. Ordinary Level, or at Honours Level in the Leaving Certificate of the Department of Education, and
- (c) A minimum of three months' approved practical training in industry;
- or (d) Such other qualifications as the College may deem to be appropriate. The attention of students who do not meet these requirements is directed to the Pre-Professional Course (D/41).

#### Course of Study

The subjects studied are as follows :—

##### First Year

Mathematics, Principles of Electricity, Applied Mechanics and Hydraulics, Physics, Chemistry, Engineering Drawing, Fundamentals of Production, General Studies, Laboratory Work and Workshops, Tutorials.

##### Second Year

Strength of Materials, Mechanics of Machines, Principles of Production, Thermodynamics, Fluid Mechanics, Electrotechnology and Controls, Civil Engineering, Mathematics and Statistics, Engineering Administration, Engineering Laboratories, General Studies and Tutorials.

#### Final Year

Strength of Materials, Mechanics of Machines, Design for Production, Applied Thermodynamics and Hydraulic Machines, or Production Engineering, Electrotechnology and Controls, Mathematics and Statistics, Engineering Administration, Project, General Studies and Tutorials.

In the Final Year students are required to carry out an individual design or research project and to submit for examination a short thesis on the work performed.

#### Examinations and Other Requirements

Students will not be permitted to advance to the next year of the course unless they have

- (a) satisfied the examination requirements;
- (b) have a satisfactory attendance record in each subject they are required to attend;
- (c) have presented Laboratory and Year's Work to the satisfaction of the examiners;
- (d) have satisfactorily completed the vacation training programme for the year.

#### Award of Diploma in Mechanical Engineering (Dip. Eng.)

At the completion of the course students who have been successful in the Final examination and who have satisfactorily completed their project will be eligible for the award of the Diploma in Mechanical Engineering. Students holding the Diploma will be granted complete exemption from the present Parts I and II examinations of the Institution of Mechanical Engineers. Fee £50 per annum.

#### (2) Production Engineering

This is a three-year sandwich course consisting of eight months' academic work each year commencing in mid-September, and three months' practical training in industry. The general scheme and entrance requirements are as in the Mechanical Engineering Diploma Course. In the Final Year students are required to take certain Production Options and the project will have a Production Engineering bias.

#### Award of Diploma in Production Engineering (Dip. Eng.)

At the completion of the course students who have been successful in the Final Examination and who have satisfactorily completed their project will be eligible for

the award of the Diploma in Production Engineering. Students holding this Diploma will be granted complete exemptions from the present Part I, II and III requirements of the Institution of Production Engineers.

Fee £50 per annum.

#### (3) Structural Engineering

This is a three-year sandwich course consisting of eight months' academic work and three months' training in structural design offices. The general scheme and requirements are as in the Mechanical Engineering Diploma Course. Each year students will take certain options in Structural Engineering, and will be prepared for the examinations of the Institution of Structural Engineers. Fee £50 per annum.

### D/42B. MECHANICAL ENGINEERING PART-TIME DAY COURSE

This is a four-year part-time day and evening course designed to meet the Studentship Part I and Part II examinations of the Institution of Mechanical Engineers and also the Mechanical Engineering Technological Certificate examinations of the Department of Education. Students attend on two days per week.

#### Entrance Requirements

Leaving Certificate standard or the Elementary Stage of the Department of Education examination in Mechanical Engineering.

#### Course of Study

##### First Year\*

Mathematics, Mechanics, Heat, Light & Sound, Electricity, General Studies.

##### First Year A

Mathematics, Mechanics, Physics.

##### Second Year

Mathematics, Mechanics, Heat, Light & Sound, Electricity.

##### Third and Fourth Years

Mechanics of Machines, Strength of Materials, Thermodynamics, Mechanics of Fluids.

\*Students may also be required to attend appropriate evening classes as directed.



**Examinations and Other Requirements**

Students may take the following examinations:—

**At the end of the first year**

G.C.E. "O" Levels and Intermediate Stage of Technological Certificate.

**At the end of the first year "A"**

Advanced Level G.C.E.

**At the end of the second year**

Joint Part I examination and Advanced Stage of Technological Certificate.

**At the end of the fourth year**

Part II, I.Mech.E. examination or Higher Technological Certificate examination of the Department of Education.

Fee £15 per annum.

**D/42C. PART-TIME MECHANICAL ENGINEERING TECHNICIANS' COURSE**

This is a part-time day course intended to prepare suitable students for the City & Guilds of London examinations for Mechanical Engineering Technicians (293). The course is to suit technicians engaged in the following types of employment:—  
Jig & Tool Design, Engineering Production, Engineering Planning and Plant Engineering.

**Entrance Requirements :**

Leaving Certificate standard or the Elementary stage of the Department of Education examination in Mechanical Engineering.

**Course of Study****First Year**

Workshop Processes and Practice, Engineering Drawing and Materials, Engineering Science, Mathematics, General

Studies together with a supplementary subject to suit special requirements.

**Second and Third Years**

Engineering Science, Mathematics, General Studies, Applied Technology and appropriate option.

**Fourth Year**

Applied Technology and one specialised subject selected from Jig and Tool Design, Product Design, Engineering Production, Mechanical Engineering Inspection, Plant Engineering and others.

**Examination and Other Requirements**

At the end of the first year students take the Part I examination of the City & Guilds of London Institute No. 293, Part II at the end of the third year, and Part III at the end of the fourth year.

Fee £15 per annum.

**D/42D. HEATING, VENTILATING & AIRCONDITIONING TECHNICIANS' COURSE**

This is a part-time day and evening course intended to prepare suitable students for the City & Guilds of London examinations for the Heating, Ventilating & Airconditioning Technicians' Certificate (No. 339).

**Entrance Requirements**

- (a) Satisfactory completion of Course D43 or
- (b) Dept. of Education Intermediate Technological Certificate or
- (c) Honours Leaving Certificate in Mathematics and Physics or
- (d) GCE 'O' Level Mathematics, Drawing, English and a Science Subject.

**Course of Study****First Year**

Heating & Hot Water Services, Drawing & Design, Principles of Electricity, Mechanics & Mechanics of Fluids, Ventilation & Air Conditioning.

**Second Year**

Heating & Hot Water Services, Principles of Electricity, Mechanics, Mechanics of Fluids.

**Third Year**

Heat Generation and Boilerhouse Practice, Ventilation & Air Conditioning, Heating & Hot Water Services.

**Examinations and Other Requirements**

At the end of the first year students take the Part I examination (No. 339) of the City & Guilds of London Institute, and the Part II at the end of the third year. Fee £15 per annum.

**D/42E. CIVIL ENGINEERING TECHNICIANS' COURSE**

This is a part-time day and evening course for Civil Engineering Technicians.

**Entrance Requirements**

- (a) Leaving Certificate Standard.
  - (b) Satisfactory completion of Course D/43.
- Fee £15 per annum.



**D/42F. CIVIL ENGINEERING WORKS MANAGERS' COURSE**

This is a four-year part-time day course intended for Civil Engineering Technicians and Trainee Civil Engineering Works Managers. Students attend on Friday afternoons and evenings.

**Entrance Requirements**

Students should have reached the Leaving Certificate Standard and be already employed as trainee managers in the field of Civil Engineering and Construction.

**Course of Study**

(a) During the first two years :  
Mathematics, Applied Mechanics, Drawing, Surveying, Hydraulics, Electricity and Road Engineering.

(b) During the third year :  
Works Management, Industrial Economics, Psychology and Sociology, Statistics.

(c) During the final year :  
Accountancy, Industrial Law, Management Techniques, Personnel Management.

**Examination and Other Requirements**

Students must sit and pass a college examination at the end of each year. They are also encouraged to sit the GCE examinations in certain subjects at the end of the first and second years.

Students who successfully complete the course may be exempted from the examination requirements of the Institute of Works Managers.  
Fee £15 per annum.

**D/43. ENGINEERING DRAUGHTSMANSHIP COURSE**

This is a one-year course to prepare students for employment as trainee draughtsmen. At the end of the year successful students take up employment as trainees and their course of study will be related to their specialisation in Mechanical, Civil or Heating and Ventilating Engineering.

**Entrance Requirements :**

(a) Leaving Certificate, Matriculation or equivalent standard or  
(b) have completed G.C.E. "O" Level Course.

**Course of Study**

The subjects studied are as follows :—  
Mathematics, Mechanics, Applied Physics, Civil Engineering, Surveying, Draughtsmanship, General Studies, Workshop Theory and Practice, Building Construction, Building Services, Tutorials, Philosophy, Physical Education.

**Examination and Other Requirements**

Students must pass a college examination at the end of the year.  
Fee £15 per annum.

**D/44. AUTOMOBILE ENGINEERING COURSE**

This course is arranged to meet the examination requirements of the Institute of the Motor Industry (Inc.), The Institute of Road Transport Engineers, the Institute of Automobile Assessors, and The Society of Engineers (Inc.). Students attend the College for 32 hours per week for the period mid-September to April. The full course extends over three years. During the summer recess students are required to obtain suitable employment in the Automobile Engineering Industry.

**Entrance Requirements :**

The entrance standard required is the Secondary Schools Leaving Certificate (including Maths and a Science subject) or an equivalent certificate.

**Course of Study :****First Year**

English, Mathematics, Heat and Heat Engines, Mechanics, Physics, Chemistry, Engineering Drawing, Electricity, Motor Vehicle Technology—Theory, Motor Vehicle Technology—Practice, Garage and Motor Workshop Practice, Philosophy, Physical Education.

**Second Year**

English, Mathematics, Heat and Heat Engines, Mechanics, Physics, Engineering Drawing, Motor Vehicle Technology—Theory, Motor Vehicle Technology—Practice, Garage and Motor Workshop Practice, Philosophy, Physical Education, Principles of Management, Automobile Electricity.

**Final Year**

Mathematics, Heat and Heat Engines, Mechanics, Engineering Drawing, Motor Vehicle Technology—Theory, Motor Vehicle Technology—Practice, Garage and Motor Workshop Practice, Philosophy, Physical Education, Principles of Management, Machine Construction and Design, Workshop Administration and Organisation, Automobile Electricity, Motor Trade Practice & Law.

**Examination and Other Requirements**

Students are required to

(a) take the Section A examinations of the above Institutes at the end of the first year  
(b) take the Section B examinations at the end of the second year, and (c) take the Section C examinations at the end of the third year.

Fee £25 per annum.



**D/45. AIRCRAFT TECHNICIANS' COURSE**

This course is a four-year sandwich course to train Aircraft Technicians for the I.C.A.O. Licensed Maintenance Engineers' Licences issued by the Department of Transport and Power. Students attend the College from September to May inclusive and spend the remainder of the year in the Aircraft Industry.

**Entrance Requirements**

- (a) Intermediate Certificate of the Department of Education with honours in Mathematics, Science, and one other subject and at least a pass in Art or Drawing and Irish or English; or
- (b) Day Group Certificate of the Department of Education with passes in at least the following subjects: Mathematics, Woodwork or Metalwork, Irish or English, Mechanical Drawing, having secured a First Class Pass in Mathematics and Woodwork or Metalwork and one other subject, which need not necessarily be one of those listed above.

**Course of Study**

The subjects studied are as follows:—

**First Year**

French, English, Social Science, Physical Education, Physics, Mechanics, Mathematics, Drawing, Workshop Technology, Aero. Laboratory, Chemistry, Workshop Practice.

**Second Year**

French, English, Social Science, Physical Education, Mechanics, Mathematics,

Drawing, Workshop Technology, Aero. Laboratory, Workshop Practice, Heat Engines.

**Third Year**

French, English, Social Science, Physical Education, Mechanics, Mathematics, Drawing, Workshop Technology, Aero. Laboratory, Workshop Practice, Heat Engines, Materials.

**Final Year**

French, English, Social Science, Physical Education, Mechanics, Mathematics, Drawing, Workshop Technology, Aero. Laboratory, Workshop Practice, Heat Engines, Materials.

**Examination and Other Requirements**

Students are required to pass examinations as follows:

- (a) At the end of the first year the Department of Education Junior Trade Group Certificates in Fitters' and Turners' Work and the Department of Education Elementary Stage Technological Examinations in Mechanical Engineering (Subjects: Mathematics, Heat, Mechanics, Machine Drawing and Workshop Technology).
- (b) At the end of the second year—the Department of Education Senior Trade Group Certificate in Fitters' Work and the Department of Education Intermediate Stage Technological Examinations in Mechanical Engineering (Subjects: Mathematics, Mechanics, Heat, Machine Drawing) and the City and Guilds of London Institute

Examination in Aeronautical Engineering Practice Part I (Paper 171/1 1st Written, 171/2 2nd Written, 171/3 3rd Written).

(c) At the end of the third year—the Department of Education Senior Turning and Senior Workshop Technology and the Department of Education Advanced Stage Examinations in Mechanical Engineering (Subjects: Applied Mechanics, Heat Engines, Mathematics, Machine Construction and Design).

(d) At the end of the fourth year—the Department of Education Higher

Technological Group Certificates in Mechanical Engineering (Subjects: Strength of Materials, Theory of Machines, Heat Engines, Mathematics, Machine Design) and the City and Guilds of London Institute Examination in Aeronautical Engineering Practice Part II (Paper 171/4 Sc.Calcs. and Drawing, Paper 171/5 Aero. Engineering Practice, 171/8 Power Plant Maintenance, Paper 171/9 Airframe Maintenance). Examinations of S.I.A.E.T. A.F.R.Ae.S. Part I. Fee £30 per annum.

**D/81. PRINTING TECHNOLOGY**

This course is designed for those who wish to make a technological study of all branches of Printing and allied processes with a view to fitting themselves for managerial and supervisory posts. It is based on the syllabus of the Full Technological Certificate of the City and Guilds of London Institute and students are prepared for the Final and Full Technological examinations of that Institute.

Minimum qualifications for admission to course is the Senior Trade Certificate of the

Department of Education in Compositors' Work or Letterpress Machine Work. The course occupies three years and is based on one day release per week (7 hours) and two evenings per week (5 hours) for the first two years and three evenings per week (6½ hours) for the third year. The training in the above courses will be supplemented by:

(a) Visits to industry.

(b) Lectures by specialists on particular aspects of the industry.

Fee £10 per annum.

**D/82. TRAINING FOR ADMINISTRATIVE STAFF**

The course is intended for those engaged in the Clerical and Administrative side of printing with a view to preparing them for higher administrative posts in the Industry. Consequent on the expansion of the

industry a definite need exists for the training of young men, already engaged in the Industry, to fit them for promotion to administrative posts. The course occupies three years; the first two are mainly



concerned with Trade Techniques, Costing and Estimating, and the third year with Administrative studies.

To secure optimum results the numbers enrolled for the course will be limited to a maximum of twelve each year.

The age group for trainees is between 19 and 24 years, and the minimum educational qualification required is the Leaving Certificate.

Students at the end of the first year will be required to pass the Preliminary Technical

Knowledge Examination of the British Federation of Master Printers.

A Diploma will be awarded to those who, having attended the full course, have passed the examination for all subjects.

The training in this course will be supplemented by:

(a) Visits to industry.

(b) Lectures by specialists on particular aspects of the industry.

Fee £15 per annum.

#### D/86. GRAPHIC DESIGN

This three-year course trains students as specialist Graphic Designers for entry into Design Groups, Advertising Agencies and Printing offices. It operates in conjunction with a course in the National College of Art. The course offers instruction not only in Design but in practical techniques of printing and graphic reproduction.

The student's work will be reproduced by the various printing processes operating at the school—letterpress, lithography, photo-lithography, silk-screen, all methods of typesetting and bookbinding.

Entry subject to Leaving Certificate standard or specimens of work indicative of promise.

Fee £10 per annum.

#### D/152. HEATING AND VENTILATING TECHNICIANS' COURSE

##### Course

This is a three-year part-time day course entailing attendance on one day per week. The course is intended for those who have satisfactorily completed Course D/151 and who aspire to be potential foremen.

##### Entrance Requirements

Applicants must have completed an

apprenticeship in heating and ventilating craft practice, and should preferably have completed Course D/151.

##### Examination Requirements

Students will be required to sit the examinations of the City and Guilds of London Institute for Heating and Ventilating Technicians—No. 181.

Fee £10 per annum.

#### D/170. CITY AND GUILDS OF LONDON INSTITUTE— MOTOR VEHICLE TECHNICIANS' WORK

This is a two-year part-time day and evening course arranged as an extension of the 168 and 169 courses and students prepare for the Full Technological Certificate in Automobile Engineering. Attendance at the College is required for one full day (7 hours) and two evenings (6 hours) per week.

##### Entrance Requirements

Students are required to have completed Course 168 or 169 and to have passed either the 168 or the 169 examination.

##### Course of Study

The subjects studied are as follows:

##### First Year

Garage Practice, Motor Workshop Practice, Heat Engines and Applied Mechanics, Motor Vehicle Technology Advanced, Mathematics.

##### Second year

Garage Practice, Motor Workshop Practice, Heat Engines and Applied Mechanics, Motor Vehicle Technology Advanced, Mathematics.

Fee £10 per annum.







## TECHNOLOGICAL & TECHNICIAN COURSES (EVENING)

### E/1A. Building Technology

A six-year course (including a preliminary year) to meet the needs of students who are employed or intend to be employed in a technical capacity on the contracting side of the building industry.

The course will prepare students for the examinations of the following bodies: The Institute of Builders (Intermediate and Final (Part 1) Examinations); The Institute of Clerks of Works in Ireland (Intermediate and Final Examinations); City and Guilds of London Institute (Building Technician's Certificate and Certificate Examinations in Builders' Quantities); The Department of Education (Certificate Examinations in Building Technology—elementary, intermediate and advanced stages). Associated Examining Board (G.C.E.—technical subjects).

#### Entrance Standard

Applicants must have a good standard of general or technical education. Students who have completed an approved course in a building trade or a Day Junior Technical Course will be exempted from the preliminary year. Students who have attained a suitable standard in draughtsmanship (e.g. Pass in Drawing, Leaving Certificate Examination) or Mathematics (e.g. Pass in Intermediate Certificate Examination) will be exempted in these subjects in the preliminary year.

Fee £10 per annum.

**E/1B. Course for Building Technicians**  
(Progressively supersedes Course in Building Technology, E/1A)

The course is of four years' duration with

attendance on three evenings of each week and is designed to prepare students for the Advanced Technological Certificate examinations of the Department of Education and the Construction Technicians' Certificate Examination of the City & Guilds of London Institute (which leads to Technician Membership of the Institute of Building).

#### Subjects

##### First Year

Building Science; Building Construction and Services; Building Calculations.

##### Second Year

Building Science; Building Construction and Services; Building Calculations; Safety Regulations.

##### Third Year

Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out.

##### Fourth Year

Building Construction and Services; Measurement and Price Build-up; Land Surveying and Setting Out.

#### Practical Experience

Students are required to be employed in the Building Industry.

#### Entry Qualifications

Full Technological Certificate in Building Crafts of the City and Guilds of London Institute.

Fee £10 per annum.



**E/2. Land Surveying and Levelling**

A two-year course to meet the needs of students who are employed in professional offices or on the contracting side of the industry. The courses consist of evening lectures and field work held on Saturday afternoons during late spring and early summer.

Optional classes in Mathematics and Draughtsmanship may be taken in conjunction with this course.

Fee £10 per annum.

**E/3. Timber Technology**

A three-year course to prepare students for the final examinations of the Institute of Wood Science.

Fee £10 per annum.

**E/40. General Certificate of Education Courses**

The following subjects are offered at ordinary level: English, Pure Mathematics, Additional Pure Mathematics, Physics, Chemistry, Geology, Technical Drawing and Surveying. The entrance standard to the above is Leaving Certificate or Department of Education Elementary Technological Certificate in Mechanical Engineering.

The following subjects are offered at advanced level: Pure Mathematics, Applied Mathematics, Physics and Technical Drawing. The entrance standard to the above is Leaving Certificate with Honours or G.C.E. Ordinary level passes in the appropriate subjects.

Fee per annum:

£7 10s. for four subjects,

£1 10s. for each additional subject.

**E/41. Graduate Courses in Engineering**

A 4/5-year course to prepare students for the examinations of the following Professional Engineering Institutions:

- (1) Inst. of Civil Eng. of Ireland.
- (2) Inst. of Civil Eng.
- (3) Inst. of Mechanical Eng.
- (4) Inst. of Production Eng.
- (5) Inst. of Structural Eng.
- (6) Inst. of Heating & Ventilating Eng.
- (7) Royal Aeronautical Society.

Before entry to these courses applicants must meet the requirements of the appropriate Institution for Student Membership.

Fee £10 per annum.

**E/42. Certificate Engineering Technician Course**

A 5/6-year course to prepare students for the Certificate examinations in Mechanical Engineering of the Department of Education as follows:

Set the end of the Second year—  
Elementary Stage.

Set the end of the Third year—  
Intermediate Stage.

Set the end of the Fourth year—  
Advanced Stage.

Set the end of the Fifth/Sixth year—  
Higher Technological Stage.

The entrance requirements are Department of Education Intermediate Certificate or Day Group Certificate with passes in Mathematics, English and a Science Subject.

Fee £10 per annum.

**E/42C. Mechanical Engineering Technicians**

This is a three-year evening course to prepare students for the Part I and Part II examinations of the City & Guilds of London—Mechanical Engineering Technicians (293). It is a supplement to Course D/42D and may also be attended by students unable to obtain day release.

Fee £10 per annum.

**E/42D. Heating & Ventilating Technicians**

This is a three-year evening course to prepare students for the Part I and Part II examinations of the City & Guilds of London Institute—Heating, Ventilating and Airconditioning Technicians (339).

It is a supplement to Course D/42C and may also be attended by students unable to obtain day release.

Fee £10 per annum.

**E/44B. Jig & Tool Design Technology Course**

A two-year Course for those who have completed Course E/42C.

Students are prepared for the Full Technological Certificate Examination of the City & Guilds of London in mechanical engineering (293).

Fee £10 per annum.

**E/46. Aeronautical Engineering Technicians**

This course provides instruction for aircraft maintenance engineers who desire to take the Licence Examinations of the Department of Transport and Power.

Fee £10 per annum.

**E/47. Diesel Maintenance**

This is a two-year Course providing

instruction in the theory and practice of diesel maintenance.

Fee £7 10s. 0d. per annum.

**E/48. Welding Technology Course**

This Course is designed to meet the requirements of those engaged in the design or supervision of projects involving the use of welding. The course of lectures will be based on the following syllabus.

**1. Welding Metallurgy**

Properties of materials. Effects of heat on the mechanical properties of metals. Concept of crystal grains, grain boundaries, and effects of temperature in promoting grain growth. Work hardening. The effect on steel of fast cooling rates. Heat treatment. Effects of preheating and post heating. Consideration of thermal expansion and contraction as causing internal stresses and/or distortion in welded structures.

**2. Welding Processes**

Survey of principles and processes of Welding. Comparison of fusion and non-fusion processes with other methods of joining metals. Gaswelding, Brazing and Soldering. Electric arc welding. Manual and Automatic Processes. Tungsten inert gas (TIG) and Metal inert gas (MIG) welding. Resistance welding, power sources. Welding of Cast Iron. Studding. Hardfacing and reclamation of worn parts. Consideration of the newer welding processes and their applications in industry.

**3. Inspection & Testing of Welding Structures**

The function of inspection. Survey of inspection procedure with reference to assembly, preparation, technique procedure,



and related mechanical tests. Use of penetrant methods of weld examination. Magnetic crack detection, principles and techniques, X and gamma radiography, principles, equipment. Ultrasonics; equipment used, and application to weld examination. Weld inspection on site.  
**Note:** This part of the course will include practical demonstration.

#### 4. Design for Welding

The welded joints. Standard preparation procedure for welding. General design principles. Specification. Codes relating to welding techniques and processes. Practical applications of welding in structural and pressure vessel work. Safety precautions. Site welding procedure.  
Fee £7 10s. 0d. per annum.

#### E/49. Automobile Engineering Course

This is a five-year evening course requiring attendance at the College for three evenings (9 hours) each week (26 weeks each year). The course prepares students for the Associate Membership Examinations of the Institute of the Motor Industry (Inc.), the Institute of Road Transport Engineers and the Institute of Automobile Assessors. Section A of the Associate Membership Examination of the above Institutes is taken at the end of the second year. At this stage students specialise and take relevant subjects to prepare themselves for the Section B examinations of the above Institutes and in addition students may prepare themselves for the I.M.I. "Pardic" Scheme Examinations. The Section B examinations are usually taken at the end of the fourth year and Section C examinations at the end of the fifth year.

#### Entrance Requirements

Secondary Leaving Certificate or equivalent certificate.

#### Course of Study

The subjects studied are as follows:

##### First Year

Electricity, Science and Mathematics, Engineering Drawing, Motor Engineering—Theory, Motor Engineering—Practice.

##### Second Year

Electricity, Science and Mathematics, Engineering Drawing, Motor Engineering—Theory, Motor Engineering—Practice.

##### Third Year

Motor Engineering—Theory, Motor Engineering—Practice, Management Practice including Method Study, Motor Trade Practice and Law, Workshop Organisation and Administration.  
or Parts Merchandising, Parts Department Administration and Organisation.

##### Fourth Year

Motor Engineering—Theory, Motor Engineering—Practice, Management Practice including Method Study, Motor Trade Practice and Law, Workshop Organisation and Administration,  
or Parts Merchandising, Parts Department Administration and Organisation.

##### Fifth Year

Management Practice including Method Study, Motor Trade Practice and Law, Workshop Organisation and Administration  
or Parts Department Administration and Organisation.  
Fee £7 10s. 0d. per annum.

#### E/50. Refrigeration Engineering Technicians

This is a two-year course for Technicians employed in the refrigeration engineering industry. Suitable students are prepared for the City & Guilds of London Institute examinations in Science and Technology of Refrigeration No. 73. The subjects of instruction are: Basic Thermodynamics, Refrigeration Processes and Refrigeration Machinery.  
Fee £10 per annum.

#### E/81. Printing Technology

This is a continuation of the Day Course in Printing Technology constituting the Third Year of the course.

Fee £7 10s. 0d. per annum.

#### E/82. Training for Administrative Staff

This course is a continuation of the Day Course for Administrative Staff.  
(See Course D/82.)

#### E/83. Applied Printing

A 2-year course designed to provide those engaged in the Clerical and Administrative side of Printing with a general knowledge of the crafts involved in modern printing and of the materials and appliances used. Students who complete the course may enter the Preliminary Technical Knowledge examination of the British Federation of Master Printers. A first class pass in this examination is one of the prerequisites for entry for administrative personnel for the City and Guilds of London Institute's scheme for advanced qualifications in Printing. It is also necessary to have passed the

Preliminary Technical Knowledge examination to be accepted as a candidate for the following:

- (a) Training for Administrative Staff.
  - (b) Estimating and Costing examination of the British Federation of Master Printers.
- Fee £5 per annum.

#### E/84A. Costing (Printing)

A two-year course designed to prepare students for the examination of the British Federation of Master Printers.  
Fee £5 per annum.

#### E/84B. Estimating (Printing)

A two-year course designed to prepare students for the examination of the British Federation of Master Printers.  
Fee £5 per annum.

#### E/85. Paper Technology and Marketing

A 2-year course for employees of Paper Mills and Paper Merchants' and Printers' employees engaged in the handling of paper transactions. Students are prepared for the examinations of the National Association of Paper Merchants and the City and Guilds of London Institute.  
Fee £5 per annum.

#### E/86. Typographic Design and Layout

Course A—This course shall normally occupy four years and may be taken by means of either day or evening classes. Its aim is to prepare compositor students for the examinations of the Department of Education and the City and Guilds of London Institute.  
Course B—A two-year course for students of



Art and those engaged in publishing houses, design studios, advertising agencies and printing houses. Students will be expected to have at least an elementary knowledge of Typography and are consequently advised to take the Applied Printing course as well.

Fee £5 per annum.

**E/89. Basic Diploma Course in Advertising**

The part of the above course of the College of Commerce, Rathmines, dealing with Printing and Reproduction methods, is now being taken in the School of Printing.

**E/90. Diploma Course in Advertising**

The subjects: Printing and Reproduction Methods, Copywriting, Design and Layout of the above course are now being taken in the School of Printing.

TRADE COURSES (DAY)

**Trade Courses**

These courses are for the preparation and pursuit of the following trades: Bookbinding, Printing, and Reproduction Methods, Copywriting, Design and Layout of the above course are now being taken in the School of Printing.

Each of these courses is for the preparation and pursuit of the following trades: Bookbinding, Printing, and Reproduction Methods, Copywriting, Design and Layout of the above course are now being taken in the School of Printing.

**Bookbinding**

This course is for the preparation and pursuit of the following trade: Bookbinding. The following details are given: (1) The course is for the preparation and pursuit of the following trade: Bookbinding. (2) The course is for the preparation and pursuit of the following trade: Bookbinding. (3) The course is for the preparation and pursuit of the following trade: Bookbinding.

**Bookbinding**

This course is for the preparation and pursuit of the following trade: Bookbinding. The following details are given: (1) The course is for the preparation and pursuit of the following trade: Bookbinding. (2) The course is for the preparation and pursuit of the following trade: Bookbinding. (3) The course is for the preparation and pursuit of the following trade: Bookbinding.

Trade Courses (Day)



## TRADE COURSES (DAY)

### Trade Courses

These courses are for apprentices and young journeymen in the Building, Vehicle Building, Furniture, Engineering and Printing, Bookbinding and Process Engraving Trades. Every facility is given to students who wish to enter for the Trade Certificate Examinations of the Department of Education or of the City and Guilds of London Institute. These examinations are conducted in the College at the end of the session. The courses are based on the examination syllabuses of these bodies. Generally, students take the Junior Stage of the Trade Certificate Examinations of the Department of Education after two years' instruction and the Senior Stage after a further two years. Fee £5 per annum except where otherwise stated.

### Building Trades

Part-time courses involving one-day instruction per week in the practice and theory of the trade. These are normally of 4 years' duration (5 years in the case of Carpentry and Joinery, and Vehicle Building). Woodcutting machinists, on completion of the second year course, transfer to the third year of the evening course. The following courses are provided:

- D/101. Bricklaying.
- D/102. Furniture Trades.
- D/103. Carpentry and Joinery.
- D/104. Coach painting.
- D/105. Painting and Decorating.
- D/106. Plumbing.
- D/107. Vehicle Building.
- D/108. Woodcutting Machinists' Work.
- D/109. Vehicle Trimming.

D/110. Wood Finishing.

D/111. Upholstery.

### Engineering Trades

#### D/46A. Engineering Apprentices' Course

This is a four-year industry-based Sandwich Course for Mechanical Engineering Apprentices who are released by their employers for 13 week blocks each year. The first and fourth years attend the College from January to March and the second and third years attend from September to December.

### Entrance Requirements

- (a) Day Group Certificate of Department of Education with first class passes in Mathematics, Metalwork and Mechanical Drawing, or Secondary Schools Intermediate Certificate of Department of Education.
- (b) Applicants must be serving an apprenticeship to one of the Mechanical Engineering Trades.

### Course of Study

#### First Year

Power House Practice, Engineering Workshop Practice, Applied Mechanics, Applied Heat and Heat Engines, Workshop Technology, Engineering Drawing, Mathematics, Principles of Electricity, English, Social Science.

#### Second Year

Power House Practice, Engineering Workshop Practice, Applied Mechanics, Applied Heat and Heat Engines, Workshop Technology, Engineering Drawing, Mathematics, Principles of Electricity, English, Social Science.



**Third Year**

Power House Practice, Engineering Workshop Practice, Applied Mechanics, Applied Heat and Heat Engines, Workshop Technology, Engineering Drawing, Mathematics, Principles of Electricity, English, Social Science.

**Fourth Year**

Power House Practice, Engineering Workshop Practice, Applied Mechanics, Applied Heat and Heat Engines, Workshop Technology, Engineering Drawing, Mathematics, Principles of Electricity, English, Social Science.

**Examination and Other Requirements**

Students are expected to pass the Technological Certificate Examinations in Mechanical Engineering Elementary Stage at the end of the second year and Intermediate Stage at the end of the fourth year. At the end of the second and fourth years they are required to pass the Junior and Senior Stages of the Mechanical Engineering Trade Examinations of the Department of Education in Fitting and Turning. Fee £15 per annum.

**D/141. Fitting and Turning**

This is a four-year block release course for Mechanical Engineering Apprentices. Students are prepared for the Junior and Senior Trade examinations of the Department of Education with associated subjects. Selected students may also take the appropriate Trade Examinations of the City & Guilds (course 193).

Students are expected to attend the College full time for a period of 11 weeks according to the following schedule :  
Block I—2nd October to 15th December inclusive.

Block II—15th January to 29th March inclusive.

Block III—22nd April to 5th July inclusive. Students will normally be informed when to attend the College.

**D/142A. Automobile Engineering Apprentices**

A five-year Day and Evening Course requiring attendance for one full day (7 hours) and two evenings (6 hours) per week.

**D/142B. Automobile Engineering (Craft)**

A five-year Course requiring attendance for one half-day (3 hours) and at least two evenings (6 hours) per week. By taking extra classes in specified subjects students may prepare themselves for the Motor Engineering Technological Certificate Examinations of the Department of Education.

**D/143. Gas + Electric Welding**

A five-year Course requiring attendance on one day per week. This Course meets the requirements of the Irish Welding Association qualification tests for Welders.

**D/149 Metal Plate Work**

A four-year Course, requiring attendance on one day per week, for apprentices who have completed the first year of Course D/46B.

**D/150. Structural Steel & Boilermakers**

A four-year course requiring attendance on one day and one evening per week.

**D/151. Heating + Ventilating Engineering Craft Practice**

A four-year Course requiring attendance on one day per week.

**D/168. Motor Vehicle Mechanics' Work (City & Guilds of London Inst.)**

A three-year Course requiring attendance on one day (7 hours) and at least 2 evenings (6 hours) per week. Students take the City and Guilds of London Institute Motor Mechanics' Work Examination at the end of the third year.

**D/169. Motor Vehicle Electricians' Work (City & Guilds of London Inst.)**

A three-year Course requiring attendance on one day (7 hours) and at least 2 evenings per week. The first year of the Course is the same as Course D/168. At the end of the third year, students take the City and Guilds Motor Vehicle Electricians' examination.

**Printing Trades****D/183. Letterpress Machine Printing (Block release course.)**

Consecutive courses of 13 weeks' duration for first and second year apprentices and courses of 6 weeks' duration for third and fourth year apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabi for the Junior and Senior

Trade Certificate Examinations in Compositor's Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

**D/184. Process Engraving**

A 4-year part-time course, comprising Junior and Senior stages.

**D/185. Linotype, Intertype and Teletypesetting**

Course A—A complete course of 12 weeks' duration of 30 hours per week. Course B—A refresher course for operators of 6 weeks' duration for 30 hours per week. Fee £15 per annum.

**D/188. Stereotyping and Electrotyping**

A 4-year part-time course for first, second, third and fourth year apprentices of 4½ hours day instruction.

**D/190. Compositors' Work (Block release Course)**

Consecutive courses of 13 weeks' duration for first and second year apprentices and courses of 6 weeks' duration for third and fourth year apprentices. During each course the apprentices attending complete a stage of the Department of Education's syllabi for the Junior and Senior Trade Certificate Examinations in Compositors' Work. An examination in each stage is set by the Department of Education at the conclusion of each course.

**D/191. Bookbinding**

A Block Release course for first, second,



**D/192. Lithography and Photo-Lithography**  
(Block release Course.)

**D/195. Film Make-up and Keyboarding**  
Courses of 13 weeks' duration for  
trainees from Industry.

**Trade Courses**



## TRADE COURSES (EVENING)

Fee £4 10s. 0d. per annum.

Evening Courses for apprentices are provided for all courses listed in the preceding section, and in Plastering, Patternmaking, Foundry Work, Brassfinishing, Boilermaking, Smith and Art Ironwork, Structural Steelwork, Monotype Casting and Monotype Keyboard, Linotype and Intertype Operating and Teletypesetting.

Students are prepared for appropriate examinations conducted by the Department of Education and the City & Guilds of London Institute.

### Physical Education

Evening courses in Physical Education are provided for men students. Classes in Physical Education are provided as components of the whole-time day courses. Athletic and sporting activities for whole-time students are organised by the several student bodies in the College with the guidance of a physical education expert. Sports fields are provided for the purpose at Terenure and Whitehall.

Fee £4 per annum

### Examinations

At the end of each session internal examinations are held in connection with the courses. Promotion of students depends on success in these examinations. Students who have not the required attendances at the courses will not be permitted to take these examinations. Students are required to

acquaint themselves with the examination and promotion regulations of the course which they take.

### External Examinations

The courses prepare students for the Examinations of the following bodies :

#### 1. Department of Education

(a) Technological Certificate Examinations in:

- (i) Building.
- (ii) Mechanical Engineering.
- (iii) Motor Car Engineering.
- (iv) Mathematics.

(b) Trade Certificate Examinations in:

- (i) Bricklaying and Masonry.
- (ii) Boilermakers' Work.
- (iii) Brass Finishing.
- (iv) Cabinetmaking.
- (v) Carpentry and Joinery.
- (vi) Compositors' Work.
- (vii) Letterpress Machine Work.
- (viii) Lithography & Photo Lithography.
- (ix) Bookbinding.
- (x) Metalplate Work.
- (xi) Motor Car Engineering.
- (xii) Painting and Decorating.
- (xiii) Plasterers' Work.
- (xiv) Plumbing.
- (xv) Fitters' Work.
- (xvi) Turners' Work.

#### 2. Professional Institutions

- (i) Building Surveyors' Institute.
- (ii) Institution of Civil Engineers of Ireland.
- (iii) Institution of Civil Engineers.



- (iv) Institution of Heating, Ventilating and Air Conditioning Engineers.
- (v) Institution of Mechanical Engineers.
- (vi) Institution of Municipal Engineers.
- (vii) Institution of Structural Engineers.
- (viii) The Institute of Building.
- (ix) Institute of Marine Engineers.
- (x) Institute of Quantity Surveyors.
- (xi) Royal Aeronautical Society.
- (xii) Royal Institute of Architects of Ireland.
- (xiii) Royal Institution of Chartered Surveyors.
- (xiv) Town Planning Institute.

### 3. Other Bodies

- (i) Board of Trade (Certification for Marine Engineers).
- (ii) British Federation of Master Printers.
- (iii) City and Guilds of London Institute.
- (iv) Department of Industry and Commerce (Licence in Aeronautical Engineering).
- (v) Institute of Clerks of Works in Ireland.
- (vi) Institute of the Motor Industry.
- (vii) National Association of Paper Merchants.
- (viii) Associated Examining Board (G.C.E.).

### Note

In connection with the examinations of professional and other external bodies, students are advised to note the following:

1. Admission to a course in the College may not of itself entitle students to sit for examinations of external bodies. Students are themselves responsible for ensuring that they satisfy all the requirements of the examining body concerned.
2. Students are expected to acquaint themselves with the current regulations for

the examinations which they propose to take.

3. Students must make all the necessary applications and provide all documents that may be required. In this connection any documents and certification (e.g. statements of attendance, etc.) required from the College authorities should be applied for at the earliest opportunity.

4. The College Authorities will give the fullest assistance and advice in the above matters.



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School of Architecture

